Focus Report

New Chemicals Program

PMN Number: **P-03-0315**

Focus Date:	02/27/2003 12:00:00 AM	Report Status:	Completed
Consolidated Set:			
Focus Chair:	A. Binder	Contractor:	LMB

I. Notice Information

Submitter: [redacted]
CAS Number:
Chemical Name:
Use: [redacted]
Other Uses: Awaiting ISIS Entry
PV-Max: [redacted]
Manufacture: X
Import:

Production Volume other information: ***Binding Option Not Marked***

II. SAT Results

(1) **Health Rating:** 1-2 **Eco Rating:** 3 **Comments:** ;

Additional SAT information:

Occupational: NR **Non-Occupational:** - **Environmental:**

(1) **PBT:**

			Comments:
Awaiting Fate Entry	Awaiting Fate Entry	Awaiting Human Health Entry	Awaiting Fate Entry
Awaiting Fate Entry	Awaiting Fate Entry	Awaiting Human Health Entry	Awaiting Fate Entry
Awaiting Fate Entry	Awaiting Fate Entry	Awaiting Human Health Entry	Awaiting Fate Entry

III. OTHER FACTORS

Categories:

Health Chemical Category:

Ecotox SAR and TSCA New Chemical Category: [redacted]

Related Cases/Regulatory History:

Health related Cases:
Ecotox Related Cases:
Regulatory History: [redacted]

MSDS/Label Information:

MSDS: No

Exposure Based Information:

Exposure Based Review:
Exposure Based Review (Eco):
Exposure Based Review (Non Occupatuional):
Exposure Based Review (Health):
Exposure Based (Occupational): No
Exposure Based (Environmental):

IV. Summary of SAT Assessment

Legacy SAT assessment: CASE NUMBERS: P03-0315 and 0316

FATE: [redacted]
solids with mp's = unk °C (P)
S = dispersible (P)
vp < 1.0E-6 mm Hg or torr at 25 °C (P)
bp > 500 °C (P)
H < 1.0E-8 (P)
log Koc > 4.5 (P)
log fish BCF = 0.50 (P)
POTW removal = 99% via sorption
time for complete ultimate aerobic biodegradation > months
sorption to soils and sediments = very strong
PBT Potential: P3B1T1

HEALTH: Absorption nil all routes based on physical/chemical properties;

concern for lung toxicity if inhaled via MW and lung over-load and [redacted] binding with membranes;
concern for irritation to mucous membranes via cationic binding;

low to moderate concern for toxicity;

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:
fish 96-h LC50 = 0.280 P
daphnid 48-h LC50 = 0.100 P
green algal 96-h EC50 = 0.040 P
fish chronic value = 0.020 P
daphnid ChV = 0.007 P
algal ChV = 0.020 P
Predictions are based on SARs for [redacted] polymers with [redacted]; SAR chemical class = polymer [redacted] (P030315) and [redacted] (P030316); [redacted]
pH7; effective concentrations based on 100% active ingredients and nominal concentrations; hardness <180.0 mg/L as CaCO3 for fish and daphnids and 15 to 24 mg/L for green algae; and TOC <2.0 mg/L;
high concern for toxicity;
mitigation of toxicity expected in natural waters with TOC = 10 mg/L; mitigation factor = 100 times;
low concern for environmental risk;
assessment factor = 10.0
concern concentration > 1.0 with mitigation via 10 mg TOC/L;

Fate:

Fate Summary:

Health:

Health Summary:

Ecotox:

Ecotox Values:
Fish 96-h LC50:
Daphnid 48-h LC50:
Green algal 96-h EC50:
Fish Chronic Value:
Daphnid ChV:
Algal ChV:

Ecotox Factors:

Assessment Factor:
Concern Concentration:
- Acute Value
Concern Concentration:
- Chronic Value

Legacy summary of eposures and releases:

V. Summary of Exposures/Releases

Engineering Summary:

Exposures/Releases			
Scenario			
Sites			
Media			
Descriptor A			
Quantity A (kg/site/day)			
Frequency A (day/year)			
Descriptor B			
Quantity B (kg/site/day)			
Frequency B (day/year)			
From			
Workers			
Exposure Type			

VI. Focus Decision and Rationale

Regulatory Actions

Regulatory Decision: Drop Decision Date: 02/27/2003

Type of Decision:

Rationale: P03-0315/316 were dropped from further review based on low expected risk to human health and the environment. Concern for potential risk to human health was addressed by adequate PPE. Although ecotoxicity concern was high, there was no significant risk posed to the environment based on mitigation of risk 100 times with 10 mg of TOC/L. This was a CEB category D3 drop.

P2 Rec Comments:

Testing:

Final Recommended:

Health:

Eco:

Fate:

Other:

[redacted]

STRUCTURE ACTIVITY TEAM REPORT ver. 04/98

Case #: P-03-0315-3/6	**DCN:** RECEIVED 03 MAR 11 AM 10:12
SAT Date: 2/14/2003	**SAT Chair:** V. Nabholz
Submitter: [redacted]	

Chemical Name:

[redacted]

CAS RN: None	**Trade Name:** [redacted]

Structure

[redacted]

Molecular Formula: [redacted]

Molecular Wt. [redacted]	**WT%<500:** [redacted]	**WT%<1000:** [redacted]
MP:	**BP:** >500	**Eq. Wt:**
H2O Sol (g/L): Dispersible	**V.P.**	<0.000001
Max. Prod. Volume (kg/yr): [redacted]	**Physical State:**	Solid

USE:

[redacted]

Related Case Numbers	Case Role	Related Case Numbers	Case Role

Focus Date: FEB 27 2003 Results: DROP

5 0 0 3 0 0 0 2 6 8 5

[redacted]

STRUCTURE ACTIVITY TEAM REPORT ver. 04/98

Case #: P-03-0316	**DCN:**
SAT Date: 2/14/2003	**SAT Chair:** V. Nabholz

Submitter: [redacted]

Chemical Name:

[redacted]

CAS RN: None	**Trade Name:** [redacted]

Structure

[redacted]

Molecular Formula: [redacted]

Molecular Wt. [redacted]	**WT%<500:** [redacted]	**WT%<1000:** [redacted]
MP:	**BP:** >500	**Eq. Wt:**
H2O Sol (g/L): Dispersible	**V.P.** <0.000001	
Max. Prod. Volume (kg/yr): [redacted]	**Physical State:** Solid	

USE:

[redacted]

Related Case Numbers	Case Role	Related Case Numbers	Case Role

Focus Date: FEB 27 2003 Results: DROP

STRUCTURE ACTIVITY TEAM REPORT 14 February 2003 [redacted]

CASE NUMBERS: **P03-0315 and 0316**

RELATED CASES: [redacted]

CONCLUSIONS/DISCUSSIONS

TYPE OF CONCERN:	HEALTH	ECOTOX
LEVEL:	1-2	3

KEYWORDS: LUNG, AQUATOX-A

SUMMARY OF ASSESSMENT:

FATE: [redacted]
solids with mp's = unk °C (P)
S = dispersible (P)
vp < 1.0E-6 mm Hg or torr at 25 °C (P)
bp > 500 °C (P)
H < 1.0E-8 (P)
log Koc > 4.5 (P)
log fish BCF = 0.50 (P)
POTW removal = 99% via sorption
time for complete ultimate aerobic biodegradation > months
sorption to soils and sediments = very strong
PBT Potential: P3B1T1
*CEB FATE: migration to ground water = negligible

HEALTH: Absorption nil all routes based on physical/chemical properties;

concern for lung toxicity if inhaled via MW and lung over-load and [redacted] binding with membranes;
concern for irritation to mucous membranes via [redacted] binding;

low to moderate concern for toxicity;
*CEB HEALTH: Exposures to humans: inhalation

ECOTOX: Predicted (P) and measured (M) toxicity values in mg/L (ppm) are:

fish 96-h LC50	=	0.280 P
daphnid 48-h LC50	=	0.100 P
green algal 96-h EC50	=	0.040 P
fish chronic value	=	0.020 P
daphnid ChV	=	0.007 P
algal ChV	=	0.020 P

Predictions are based on SARs for [redacted] polymers with [redacted]; SAR chemical class = polymer [redacted] (P030315) and [redacted] (P030316); [redacted]; pH7; effective concentrations based on 100%

active ingredients and nominal concentrations; hardness <180.0 mg/L as CaCO3 for fish and daphnids and 15 to 24 mg/L for green algae; and TOC <2.0 mg/L;
high concern for toxicity;
mitigation of toxicity expected in natural waters with TOC = 10 mg/L; mitigation factor = 100 times;
low concern for environmental risk;
assessment factor = 10.0
concern concentration > 1.0 with mitigation via 10 mg TOC/L;
*CEB ECOTOX: No releases to water;

SAT Co-chair: Vince Nabholz, 564.8909

BIOLOGICAL TEST INFORMATION						
Case Number:	**P-03-0315-0316**	Date Received: **2/3/03**	Rev. Init: **NSH**	OECD Status: **Incomplete**	Page: 1 of 1	
Other Data:	[]Ecotox	[ ]Fate	[**X**]Water solubility/Log P **Complete, MSDS, p.26**			%ai

NCSAB SAT REPORT [redacted]

PMN: P-03-0315	CAS RN: None
Chemical Name: [redacted]	Analogs:
	Production Volume:

Structure:

[redacted]

[redacted]

MP:		BP:	>500	VP:	<0.000001
H2O Sol (g/L):	Dispersible	Physical State:	Solid	Log P:	

Endpoint (mg/L)	Est. Value	Meas. Value	Comments
Fish 96-h	0.28		
Daphnid 48-h	0.10		
Algal 96-h	0.040		
Fish ChV	0.016		
Daphnid ChV	0.007		
Algal ChV	0.020		
BCF			

CHEMICAL CLASS: SAR: Polymer - [redacted]

ECOTOX CONCERN (H) M L CONCERN CONCENTRATION

DATE 2/14/03 ASSESSOR:

NCSAB SAT REPORT [redacted]

PMN:	P-03-0316	CAS RN:	None

Chemical Name: [redacted]

Analogs:

Production Volume:

Structure: [redacted]

[redacted]

MP:		BP:	>500	VP:	<0.000001
H2O Sol (g/L):	Dispersible	Physical State:	Solid	Log P:	

Endpoint (mg/L)	Est. Value	Meas. Value	Comments
Fish 96-h	0.28		
Daphnid 48-h	0.10		
Algal 96-h	0.040		
Fish ChV	0.016		
Daphnid ChV	0.007		
Algal ChV	0.020		
BCF			[redacted]

CHEMICAL CLASS: SAR: polymer [redacted]

ECOTOX CONCERN (H) M L CONCERN CONCENTRATION

DATE 2/14/03 ASSESSOR: